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## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: KENNETH SAMPLES FITCH, EVEN, TABIN & FLANERY 120 S. LASALLE ST. SUITE 1600 CHICAGO, IL 60603  Due: 13 SEPT 2000	PCT  NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION (PCT Rule 44.1)  Date of Mailing (day/month/year)  1 3 JUL 2000			
Applicant's or agent's file reference				
68671	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US00/40013	International filing date (day/month/year) 31 MARCH 2000			
Applicant PROTO MANUFACTURING LTD				
1. X The applicant is hereby notified that the international search report has been established and is transmitted herewith.  Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46).  When? The time limit for filing such amendments is normally 2 months from the date of transmitted of the international search report, however, for more details, see the notes on the accompanying sheet.  Where? Directly to the International Bureau of WIPO  34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35  For more detailed instructions, see the notes on the accompanying sheet.  2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.  With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:  the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later). Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.				
Name and mailing address of the ISA/US	Anthorized officer			

Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231
Facsimile No. (703) 305-3230
Form PCT/ISA/220 (July 1998)\*

Felephone No. (703) 308-4861

Craig Church





### PATENT COOPERATION TREATY

# **PCT**

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 68671	FOR FURTHER see Notification ACTION (Form PCT/IS	on of Transmittal of International Search Report AA/220) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/y	ear) (Earliest) Priority Date (day/month/year)			
PCT/US00/40013	31 MARCH 2000	31 MARCH 1999			
Applicant PROTO MANUFACTURING LTD					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.					
This international search report consists	s of a total of <u>3</u> sheets.				
X It is also accompanied by a	copy of each prior art document cited in	this report.			
1. Basis of the report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).  b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:  contained in the international application in written form.  filed together with the international application in computer readable form.  furnished subsequently to this Authority in written form.  furnished subsequently to this Authority in computer readable form.  the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.  the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.  Certain claims were found unsearchable (See Box I).  Unity of invention is lacking (See Box II).  With regard to the title,  X the text is approved as submitted by the applicant.  the text has been established by this Authority to read as follows:					
Box III. The applicant may search report, submit com	ed, according to Rule 38.2(b), by this A	iling of this international			
as suggested by the applic		None of the figures.			
X because the applicant faile		None of the figures.			
because this figure better	characterizes the invention.				





International application No. PCT/US00/40013

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

In accordance with the present invention, an x-ray diffraction apparatus (10) and method are provided in which an x-ray or goniometer head (12) can be adjusted in different directions to allow the head (12) to direct x rays at a part (14) from various positions. In this manner, measurements can be taken from a wider region of the part (14) without requiring that the part (14) itself be moved or that an operator move the unit, which can be relatively heavy. In one aspect the head (12) can be rotated about its internal axis so that it can more readily direct x rays along curved surfaces of the parts (14) while keeping a substantially constant distance therefrom. It is preferred that the apparatus be a portable unit including adjustment means (18) to allow the x-ray head to be moved in the different directions so that it can be transported for use in the field.



## INTERNATIONAL SEARCH REPORT



International application No. PCT/US00/40013

A. CLA IPC(7) US CL	ASSIFICATION OF SUBJECT MATTER :G01N 23/20 :378/71				
According to International Patent Classification (IPC) or to both national classification and IPC					
	LDS SEARCHED				
Minimum o	documentation searched (classification system follow	red by classification symbols)	·		
U.S. : 378/71					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where a	Relevant to claim No.			
X	US 4,095,103 A (Cohen et al) 13 June 1978 (13/06/78) See the entire document.		1-28		
X	US 4,807,273 A (Haendle) 21 February 1989 (21/02/89) See the entire document		1-28		
x	US 5,054,043 A (Lucas et al) 01 October See the entire document.	1-28			
Furthe	er documents are listed in the continuation of Box C				
	cial categories of cited documents:	, , , , , , , , , , , , , , , , , , , ,			
'A* doc	ument defining the general state of the art which is not considered se of particular relevance	"T" later document published after the inte date and not in conflict with the appl the principle or theory underlying the	ication but cited to understand		
	earlier document published on or after the international filing date  "X"  document of particular relevance; the claimed invention cannot considered novel or cannot be considered to involve an inventive service.		claimed invention cannot be red to involve an inventive sten		
Cite	ument which may throw doubts on priority claim(s) or which is d to establish the publication date of another citation or other	when the document is taken alone			
	cial reason (as specified) ument referring to an oral disclosure, use, exhibition or other us	"Y" document of particular relevance; the considered to involve an inventive combined with one or more other such being obvious to a person skilled in the constant of the con	step when the document is documents, such combination		
P" docu	ument published prior to the international filing date but later than priority date claimed	"&" document member of the same patent	family		
Oate of the a	actual completion of the international search	Date of mailing of the international sea 1 3 JUL 2			
Commission Box PCT Washington,	ailing address of the ISA/US er of Patents and Trademarks D.C. 20231	Authorized officer Craig Church	fz		
facsimile No	o. (703) 305-3230	Telephone No. (703) 308-4861	<i>,</i> 0		